

Title (en)
Method of reinforcing a structure

Title (de)
Verfahren zur Verstärkung einer Struktur

Title (fr)
Procédé de renforcement d'une structure

Publication
EP 1152102 A2 20011107 (EN)

Application
EP 01303883 A 20010427

Priority
• GB 0010247 A 20000428
• GB 0010248 A 20000428

Abstract (en)
A brick or masonry structure (2) is drilled to receive an elongate reinforcing assembly comprising a core (3;25;26;27,28;32) with one or more fabric sleeves (10,15,22) over most of its length. The sleeves are injected with grout that seeps through the fabric to bond to the drilling (1) wall. It may bond directly to the core or to a tube through which the core extends. The core is anchored to the structure at or near the mouth of the drilling (1) while a tube (5) furthest from the mouth may have a connection (4) to the core (3) that allows the core to be pulled towards the mouth with progressively greater resistance. The reinforcing assembly can also have limited extendability by inserting links (31) in the core between grouted sleeve sections or by using wire (32), which could be kinked in such gaps. The reinforcing assembly can also bend or suffer limited transverse displacement between grouted sleeve sections, and by the composition of the core (26) it can be made to bend more easily in some directions than others. <IMAGE>

IPC 1-7
E04G 23/02

IPC 8 full level
E01D 22/00 (2006.01); **E04G 23/02** (2006.01)

CPC (source: EP US)
E01D 22/00 (2013.01 - EP US); **E04G 23/0218** (2013.01 - EP US); **E04G 23/0233** (2013.01 - EP US)

Cited by
WO2011030105A1; CN109403652A; GB2551496A; GB2551496B; US8656680B2; WO2010116188A1; WO2007144595A1; US8806836B2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
EP 1152102 A2 20011107; **EP 1152102 A3 20030611**; **EP 1152102 B1 20091209**; AT E451514 T1 20091215; DE 60140711 D1 20100121; US 2001034997 A1 20011101; US 6499268 B2 20021231

DOCDB simple family (application)
EP 01303883 A 20010427; AT 01303883 T 20010427; DE 60140711 T 20010427; US 84278401 A 20010427